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# Washington University Record, August 31, 1989

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# RECORD

**Washington**  
WASHINGTON · UNIVERSITY · IN · ST · LOUIS

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**Governor's visit:** Missouri Gov. John D. Ashcroft (center) inspects tissue culture of the cassava plant with Roger N. Beachy, Ph.D. (right), professor of biology, and Provost Edward S. Macias, Ph.D., during a recent tour of the Washington University Center for Plant Science and Biotechnology. Beachy, the center's director, was awarded a \$500,000 grant from the state last fall to establish the center, one of three Centers for Advanced Technology (CAT) in Missouri. Ashcroft recognized the accomplishments of Beachy and Washington University scientists who are seeking to develop new plants and plant traits through the latest biotechnological techniques. Research at the center, which was funded through the Missouri Department of Economic Development, is expected to boost the state economy; agriculture, agribusiness and industry are the future benefactors.

## 'A great supporter'

## Anheuser-Busch Foundation donates \$2 million to establish marketing chair; honors past CEO

The Anheuser-Busch Foundation is donating \$2 million to Washington University's John M. Olin School of Business. The contribution will be used to establish an endowment to create the August A. Busch Jr. Distinguished Professor of Marketing Chair.

The chair is established to recognize the many accomplishments of the honorary chairman of the board of Anheuser-Busch Inc. During his 29-year tenure as Anheuser-Busch's chief executive officer, the company experienced major expansion and achievement.

Russell L. Ackoff, Ph.D., professor emeritus of management science at the University of Pennsylvania's Wharton School of Business and chairman of the board of INTERACT: The Institute for Interactive Management in Philadelphia, will be the first to hold the chair. Ackoff, who will hold the chair as a visiting professor, is nationally recognized for his pioneering efforts in management science.

He also has served as a consultant in marketing and strategic planning for many of America's top corporations, including Aluminum Company of America; Anheuser-Busch Cos. Inc.; the General Electric Co.; CertainTeed Corp.; IBM; Eastman Kodak Co.; and the Metropolitan Life Insurance Co.

"We are delighted to receive Anheuser-Busch's support for a marketing chair," said Chancellor William H. Danforth. "Anheuser-Busch has always been a great supporter of the school, and the company's continued assistance is greatly appreciated by Washington University."

Robert L. Virgil, D.B.A., dean of the business school, added: "We

recognize that marketing is a central discipline in modern business, and we must have strength in marketing to be a premier business school. With the help of Anheuser-Busch — one of America's most effective marketing companies — we will vastly improve our marketing expertise."

August A. Busch III, chairman of the board and president of Anheuser-Busch Cos. Inc., said: "The marketing chair represents our continuing commitment to help build an asset for the St. Louis area and for American business."

"At the same time, we honor August A. Busch Jr., whose energy, enthusiasm and commitment have

helped build a great company and improve the quality of life for all of St. Louis."

During August A. Busch Jr.'s tenure as president, more than \$500,000 was given to Washington University, which has a biology laboratory named in honor of his grandfather, Adolphus Busch.

Ackoff will assume his duties at Washington University this fall while continuing his principal responsibilities as chairman of INTERACT. He will visit the Olin school periodically throughout the academic year to meet with faculty regarding curricular and research issues, to lead seminars with

*Continued on p. 10*

## Noted veterinary medicine expert named assistant vice chancellor

### Jack Hessler also to head comparative medicine division

Jack R. Hessler, D.V.M., has been named assistant vice chancellor for veterinary affairs and director of the Division of Comparative Medicine at Washington University.

Hessler's appointment was effective Aug. 1. He comes to St. Louis from Memphis, where he has served as chairman of the Department of Comparative Medicine at the University of Tennessee and as chief of the veterinary medical unit of the Veterans Administration Medical Center.

"We are delighted that Dr. Hessler has joined the faculty," says Chancellor William H. Danforth. "Beyond his clinical experience, he brings to this position an impressive background in research on issues of great importance to veterinary medicine."

In the field of laboratory animal medicine, Hessler is recognized widely as an expert in laboratory animal resource management and research animal facility planning. Much of his recent work has focused on design of environments for laboratory animals. He has conducted numerous studies related to pulmonary and circulatory physiology.

Hessler joined the University of Tennessee faculty in 1975 as an associate professor of physiology and biophysics and director of the Animal Resource Division. He received an additional appointment as associate professor of comparative medicine in 1977, and became chairman of that department in 1987. He was a faculty member in comparative medicine at

*Continued on p. 6*

## Nader, Sendak are among speakers in Assembly Series

From a lecture by a Pulitzer Prize-winning author on the tragedies of the Vietnam War, to an Israeli-Palestinian dialogue, Washington University's fall Assembly Series has something of interest for everyone.

The Assembly Series begins its 30th year this fall offering free lectures to the University community and the public. Unless otherwise noted, all the lectures are held at 11 a.m. on Wednesdays in Graham Chapel.

William P. Kinsella, author of *Shoeless Joe*, the novel upon which the recently released movie "Field of Dreams" was based, opened the fall series Aug. 30 with a reading and comment on the book and film. Kinsella, a Canadian, won the Houghton Mifflin Literary Fellowship award in 1982 for *Shoeless Joe*.

Caribbean poet and playwright Derek A. Walcott will speak Sept. 6. His talk is titled "Outside the Cathedral and Reflections on Grenada: Essays on Poetry and Politics."

Walcott, who is the fall Visiting Hurst Professor at Washington, is the author of numerous books of poetry and plays that focus on the dichotomy between black and white, subject and ruler, and the Caribbean and Western civilization present in his culture and ancestry.

Walcott is the author of *Collected Poems*, *The Arkansas Testament* (poetry), and *Three Plays*, a trilogy focusing on life in Trinidad.

Jeff Greenfield, ABC News' political and media analyst, will deliver the Sept. 13 Fall Honors Lecture on "Ethics and the Media." Greenfield joined ABC News in 1983, contributing regularly to all ABC News programming and to ABC's "Good Morning America." He is a regular correspondent for the network's "Nightline" with Ted Koppel and writes a twice-weekly syndicated political column that appears in some 90 American newspapers. He also is the author or co-author of nine books.

Avenues toward peace in the Middle East will be explored during "Convocation for Peace: An Israeli-Palestinian Dialogue" to be held at 4 p.m. Thursday, Sept. 14, in Graham Chapel. The speakers will be Yehoshafat Harkabi, former deputy and chief of Israeli military intelligence, and Emile Sahliyeh, a Palestinian political scientist. A discussion with the speakers will be held at 5:15 p.m. in the Women's Building lounge.

Harkabi, professor of international relations at Hebrew University, is the author of *Israel's Fateful Hour*. Sahliyeh, formerly a faculty member in the Department of Middle East Studies at Birzeit University, wrote *The PLO After the Lebanon War*.

At 8 p.m. Sept. 14 in the Simon Hall auditorium, Ronald Young, executive director of the U.S. Inter-religious Committee for Peace in the Middle East, will speak on "The Role of the United States in the Israeli-Palestinian Conflict: The Need for Citizen Action."

Journalist and author Neil Sheehan will speak on "Vietnam: How Could This War Have Happened" on Sept. 20. Sheehan is author of the 1988 Pulitzer Prize-winning book titled *A Bright Shining Lie: John Paul Vann and America in Vietnam*, the story of a dedicated career officer who spoke out against America's early strategy in Vietnam. Sheehan also received the National Book Award for *A Bright Shining Lie*, which he researched for 16 years.

*Continued on p. 9*





Freshman Mitsuko Igarashi (center) of Memphis, Tenn., receives help from her father, Masanori Igarashi, and her sister, Satoko, as Mitsuko and more than 2,000 freshmen and returning students moved into the South-40 Aug. 24 and 25.

## Class of 1993: 'exceptionally talented'

Despite the declining population of high school graduates, Washington University continues to attract a large number of applicants, according to Charles S. Nolan, Ph.D., the new assistant provost and dean of admissions in Washington.

"In a year when highly selective universities throughout the country saw their applications decrease from 5 to 20 percent, Washington University experienced a modest 3 percent decline," notes Nolan. "This is particularly noteworthy, acknowledging that the overall strength of our applicant pool has improved significantly in recent years."

According to statistics compiled through Aug. 24 by the admissions office, 8,666 students sought admission to Washington this fall, compared to a record 8,920 a year ago.

"The large number of freshman applications enabled the undergraduate schools to admit on a highly selective basis, which resulted in this year's exceptionally talented class," says Nolan. "The strength of these new students gives convincing testimony to the growing national appeal of Washington University."

The class of 1993 comprises 1,216 freshmen, of which 602, or 49.5 percent are females, and 614, or 50.5 percent are males. The number of freshmen attending Washington last year also was 1,216.

As for the academic standing of the 1989 freshman class, 48 percent were ranked in the top 5 percent of their high school class, compared to 46 percent a year ago; 70 percent were ranked in the top 10 percent vs. 69 percent last year; and 92 percent were ranked in the top 20 percent, a slight increase over 91 percent in fall 1988.

The mean Scholastic Aptitude Test (SAT) score for the 1993 class is 572 verbal and 651 math, compared to 569 verbal and 645 math last year. The incoming freshman class includes 69 National Merit Scholars.

The class of 1993 includes 192 minority students, which is 16 percent

of the total class, compared to 201 minority freshmen, or 16.5 percent of the total class last year. Of the minorities, defined as black, Asian Americans, Hispanics and American Indian students, 61 are black; 107 are Asian Americans and 24 are Hispanics. There are no American Indians.

Last fall, the freshman class included 72 black freshmen, or approximately 6 percent of the class. Of this year's 61 black freshmen, 38 are females and 23 are males, compared to 50 females and 22 males last year.

"The stability in minority student enrollment in our entering freshman class reflects a desire on the part of all serious students to attend quality institutions such as Washington," Nolan says. "Unfortunately, a nationwide trend of fewer black students attending four-year colleges and universities in recent years has had its effect this year."

"Attending historically black colleges and universities has become even more attractive as well. In addition, the competition for black students, especially among the most selective institutions, has escalated significantly during the last five years. While there is a real need for the University to continue to focus energy and resources on attracting more minority students to Washington, our new freshman class is well represented by national standards of private universities."

The most popular majors among freshmen enrolled in the College of Arts and Sciences are biology, pre-med studies, English, political science, psychology, history and mathematics.

Approximately 55 percent of the freshman class will receive some form of financial aid based on merit or need.

"I am most impressed by the quality of our new freshman class," comments Nolan. "By all measures, this class excels academically and has been involved in a broad range of co-curricular and extracurricular activities."

Among the students' varied activities are membership in the National Honor Society. A total of 408 incoming freshmen were members of their high school chapters and 19 served as presidents, 26 as vice presidents and 40 as secretaries or treasurers.

The freshmen also were involved in politics, journalism, music, dance, sports and several specialty clubs at their high schools. The class includes 20 senior class presidents, 27 student council presidents, 72 yearbook editors, 51 newspaper editors, 18 literary magazine editors, 117 band/orchestra members, 6 student band directors, 67 chorus members, 5 chorus presidents, 110 piano players, 41 dancers and 4 choreographers.

Among the sports enthusiasts are 29 soccer captains and 4 soccer managers, 28 basketball captains and 7 basketball managers, 19 tennis captains, 17 volleyball captains and 5 volleyball managers, 13 track captains, 13 swim team captains, 10 cheerleading captains, 10 football captains and 2 ice hockey captains.

The students' club affiliations range from Students Against Drunk Driving (90 members) to Amnesty International (10). There also were 3 presidents of the American Field Service, 6 Brain Bowl presidents, 11 French club presidents, 7 math/computer club presidents, 8 drama club presidents, 9 forensics club presidents, 10 Model United Nations members, 1 NAACP vice president and 20 Spanish Honor Society members.

Other highlights about the class of 1993:

- Of the 1,216 freshmen, 723 are enrolled in arts and sciences; 226 in engineering; 139 in business; 69 in fine arts; and 59 in architecture.

- 42 percent are from the Midwest; 22 percent are from the Middle Atlantic States; 11 percent are from the South; 8 percent are from the Southwest; 8 percent are from the West; 6 percent are from New England; and 3 percent are from foreign countries,

Guam and Puerto Rico.

- The top three hometown states for the class are Missouri (162 students), Illinois (143) and New York (118).

- 59 freshmen, or 5 percent of the class, are children of alumni.

- The students are from 47 American states and 21 foreign countries.

- Five of the freshmen operate their own businesses (two in jewelry design, one owns a video store, one owns a yard greeting sign company and one designs and sells clothing).

- Community awareness is important to many of the freshmen, as demonstrated by their project involvement. Four students served as Special Olympics volunteers. One student founded a chapter of the Junior Organization of Chinese Americans. Another served as a junior Jaycees director, and one was a YMCA activities director. Two other freshmen were commentators for local cable television teen shows and several students campaigned for state representatives and senators.

- The students' employment experiences are as varied as their high school and community activities. Their work backgrounds include a computer consultant for a Dean Witter investment office; a newspaper reporter; 46 tutors; a farm hand; 29 peer counselors; 8 house painters; 4 disc jockeys; a golf cart mechanic; a flea market vendor; a fashion model; a mayoral intern; a bagel maker; a House of Representatives page; and a precinct official.

To introduce the freshmen to Washington and the city, a variety of activities are being held ranging from a riverboat cruise on the Mississippi River, to the two-day Freshman Camp, a pre-orientation event where the newcomers get acquainted at the YMCA of the Ozarks. Freshman orientation, which began Aug. 24, runs through Sept. 3.

Among the other orientation events are a workshop on making major decisions, a dean's meeting for students and one for parents, the chancellor's welcome to the parents, an ice cream social, an activities fair, a workshop titled "Surviving Your First Year," movies, a volleyball tournament and the annual convocation that officially opens the academic year. And, of course, no freshman orientation would be complete without Danforth's annual fireside storytelling at Edison Theatre.

## RECORD

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## Meet the artists

# Expanded Edison series offers 'eclectic mix' of theatre, dance, music

The 16th season of Washington University's Edison Theatre features a full range of performances in theatre, dance and music.

The new season will bring an increased number of guest performers of world renown, as well as the best in avant-garde theatre, to Edison.

"Our expanded program reflects the great success 'OVATIONS!' has had this past season," says Charles E. Robin, operations manager of Edison Theatre. "We have strived to broaden the series to include performers of international prominence, while continuing Edison's tradition of exploring new and different theatre. Subscriptions have tripled and attendance has quadrupled. It is clear to us that people really enjoy our new 'OVATIONS!' programming."

The 1989/90 season also will include more "Meet the Artists!" sessions, which provide an unusual opportunity for people to meet with and learn from the performers. The number of events in "ovations! for young people," a highly successful children's series introduced last season, has been increased to four performances.

"'OVATIONS! 89/90' is going to be a very exciting season," says Henry I. Schvey, Ph.D., chair of the Performing Arts Department. "I like to think that our eclectic mix of the highest quality theatre, dance and music brings something unique to the St. Louis cultural scene. By expanding not just the series, but our popular 'Meet the Artists!' and young people's programs, Edison audiences will be treated to a feast for the eye, the mind and the spirit."

The Edison season opens Sept. 22 and 23 with the return of the internationally heralded Market Theatre of South Africa. The Market Theatre, which performed their acclaimed "BOPHA!" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vusisizwe Players. The play depicts South African women in their struggle against apartheid and shows the colorful life of the marketplace through story, song, mime and dance.

The Market Theatre, based in Johannesburg, South Africa, encourages the development of indigenous theatre, seeking work of a folk or political nature in the townships and preparing it for professional stage.

The Tony Award-winning National Theatre of the Deaf returns to Edison on Oct. 6 and 7 to perform "a dark, wild and mythic" adaptation of "The Odyssey." The internationally renowned company, comprising both hearing and deaf actors, performs simultaneously in two languages — one for the ear and one for the eye. The result has been called "sculpture in the air."

The company received rave reviews for its performance of an adaptation of the film classic "King of Hearts" during its visit to Edison Theatre last March.

The David Parsons Dance Company will perform on Oct. 27 and 28. Parsons, a native of Kansas City, Mo., founded the company in 1985, and now has eight dancers and a repertoire of 13 works, three with commissioned scores.

Parsons has been described by The New York Times as "a dreamboat of a dancer ... watching Mr. Parsons on stage is a viewer's treat by any standards."

There will be SERIOUS FUN! at Edison on Dec. 1 and 2 when Alice

Tully Hall in Lincoln Center presents the first national tour of a series of experimental and new performance styles springing from avant-garde cabarets in New York and around the country.

Designed to demystify the avant-garde for traditional audiences, the tour brings four of the best from the original series to Edison. They are: Scott Johnson, a jazz, rock and electronic music composer whose work was chosen for the film score of the movie "Patty Hearst"; Frank Maya, a "ranter," defined as "not quite a monologist, not quite a stand-up comic," whose material on Picasso's talking cat and letters from famous dead people has drawn crowds at clubs nationwide; Charles Moulton, a zany choreographer famous for his own brand of tap dancing called "tapnology," in which he taps on his entire body and uses sounds from unusual props as accompaniment; and Guy Klucsevsek, a composer and performer who over the past 15 years has made the accordion an important voice in modern music.

The Kronos Quartet will perform concerts on Jan. 26 and 27, with different selections each night. Though only 11 years old, the Kronos Quartet has redefined the meaning of string quartet music, commissioning countless new works for string quartet from such major composers as Philip Glass, John Zorn and Elliott Carter.

Also well-known for its arrangements and paraphrases of jazz and pop numbers, the group's entire repertoire is very modern.

Two "OVATIONS!" performances will come to Edison in February. The Waverly Consort will perform a concert of Medieval and Renaissance music on Feb. 10. Recognized as one of the world's finest choral chamber groups who perform on authentic reproductions of early musical instruments, the Waverly Consort provides an interesting counterpoint to a season that is otherwise largely contemporary.

The American Indian Dance Theatre presents a 26-member troupe of premier Native American dancers from 15 different U.S. and Canadian tribes on Feb. 23 and 24. Lavish and colorful costumes and live music performed on authentic instruments transport the audience to the ancient cultures of North America.

Spalding Gray, best known for his movie monologue "Swimming to Cambodia," in which his participation in the filming of "The Killing Fields" serves as a jumping-off point for a wide range of strange stories and reflection, will appear at Edison Theatre March 2 and 3. Gray will perform "The Terrors of Pleasure," a monologue on his attempts to renovate a dilapidated New England country home. As part of his first St. Louis appearance, Gray also will meet with students and participate in a "Meet the Artists" session. The performance artist is on a sabbatical and is not touring — his Edison Theatre appearance is an exclusive booking.

The Kodo Drummers of Japan offer a truly unusual form of entertainment on March 16 and 17. Founded in 1971 as a small commune on Sado Island in the Sea of Japan, the Kodo members train like athletes for their ritual performances, which require great strength and stamina. The troupe first performed in the United States after successfully completing the Boston Marathon.

The drummers, whose performances demand incredible discipline



The Market Theatre of South Africa will open Edison Theatre's 1989/90 "OVATIONS!" season at 8 p.m. on Sept. 22 and 23 with the play "You Strike the Woman, You Strike the Rock."

and precision as well as strength, use primarily the traditional Japanese "taiko" drum, but also xylophones, cymbals, flutes, samisens (a three-stringed Japanese instrument resembling a banjo) and dance.

Laurie Anderson, one of America's most popular new wave performance artists, will appear April 20 and 21. Anderson, whose trademark haunting voice, electrified violin and spikey hair was first noted in the early 1980s, has produced several albums, including "Big Science" and "Mister Heartbreak," and a film, "Home of the Brave."

Because she rarely performs solo and is making an exclusive two-week tour to selected Midwest cities, Anderson's performance is offered as Edison's special event, with ticket preference for subscribers. Her performance at Edison will include video, electronic music and spoken material described by The New York Times as "poetically rich and musically compelling."

The Susan Marshall Company will give the final performance of the "OVATIONS!" season on April 27, 28 and 29. Choreographer Marshall focuses on the complexity of human relationships, family and friendships in her dances, which have been called subtle, humorous and giddy.

Recognized as one of the leading new choreographers on today's New York scene, Marshall appeared in the fall 1988 Next Wave Festival, an internationally renowned showcase for new performers at the Brooklyn Academy of Music.

In an expanded selection of "Meet the Artists" discussions, seven performers will discuss their work. The artists are: Dave Parsons at 4:30 p.m. Oct. 27; the Kronos Quartet and composer John Zorn at 6:30 p.m. Jan. 27; The Waverly Consort at 6:30 p.m.

Feb. 10; and Spalding Gray at a time and date to be announced. These events are free and open to the public. They will be held in the Mallinckrodt Center Drama Studio.

Three of the ensembles will discuss their work in Edison Theatre immediately following their performances. They are: The Market Theatre on Sept. 22; the National Theatre of the Deaf on Oct. 6 and 7; and the Susan Marshall Company on April 29. These events are for Edison Theatre audience members only.

Single tickets to "OVATIONS!" events are \$16 for the general public; \$12 for Washington University faculty and staff and senior citizens; and \$8 for students. Subscription rates for between four and seven shows are \$14 per ticket for the general public; \$10 for Washington University faculty and staff and senior citizens; and \$7 per ticket for students. Subscriptions for between eight and 12 performances are \$12 for the general public; \$8 per ticket for Washington University faculty and staff and senior citizens; and \$6 per ticket for students.

Laurie Anderson is a special subscriber event. Subscribers will have first choice of seats. Single tickets will not go on sale until March 19, 1990. Tickets for all seats are \$20.

"Ovations! for young people" will feature Paul Mesner Puppets on Sept. 16; the return of the Little Theatre of the Deaf on October 7; the American Indian Dance Theatre on February 24; and Theaterworks in "The Velveteen Rabbit" on March 10.

All "ovations! for young people" events are Saturday matinees beginning at 2 p.m. Tickets for single events are \$7; \$5 per ticket for any three or four performances.

For more information or to reserve tickets, call 889-6543.



# MEDICAL RECORD

## Exercise each day may keep hip fractures away

Two 80-year-old women trip and fall, with very different results. The first lands hard on her hip, fractures it and is suddenly bed-ridden, having lost her mobility and independence. But the second swiftly puts a hand out to catch herself — and ends up with only a cast on her wrist.

What causes the second woman's quick reaction? It may come from a consistent pattern of exercise, says a team of researchers from Jewish Hospital at Washington University Medical Center. Their work suggests that exercise improves the brain's central processing time and speeds up reflexive action that can help prevent hip fracture.

"This is a total re-orientation of our thinking about hip fracture," says Stanley J. Birge, M.D. Birge, director of the Jewish Hospital Program on Aging, presented early findings from the study with co-investigator Sarah McGee, M.D., at the May meeting of the American Geriatric Society. "It gives us a strategy to combat this devastating health problem."

The amount and type of exercise required to achieve this benefit is not yet clear, say the researchers, whose work is part of a major, four-phase study on falls and hip fracture funded by the National Institute on Aging. But simple stretching exercises, easily performed at home, may well do the trick.

### A Growing Problem

"I think there will be a major shift in hip fracture research over the next five years, as we look at the prevention of falls and deterioration of central processing speed," says Birge. "I feel very optimistic because these are areas that are potentially amenable to intervention."

Some 300,000 hip fractures occur annually in the United States, mostly among older white women, at a cost of more than \$8 billion in 1987 alone.

After hospitalization, nearly one-half of all hip fracture patients are discharged to a nursing home, where two-thirds of them will remain one year later. More than a third of patients who return home cannot live independently.

And this problem is likely to increase dramatically in the next 10 years, Birge says, since the over-80 population is the most rapidly growing segment of the population. Some estimates predict a startling 500,000 hip fractures a year by 1995.

In the past, many scientists believed that hip fracture was linked solely to osteoporosis, itself a major health problem that afflicts more than 15 million Americans and leads to diminished bone mass — and bone strength — among the elderly. Studies have shown that bones weakened by osteoporosis are more likely to break when subjected to a fall.

Yet Birge and his colleagues felt that among older women, especially in the over-70 population, other factors might also play a part. For one thing, careful studies had already shown that bone density among hip fracture and non-fracture patients are similar. "So it's difficult to attribute hip fracture just to thin bones, though clearly that is part of the problem," Birge says. "Perhaps even more important in those over 70 is *how* they fall."

### A Global Approach

His team planned to look at factors that increase the risk of hip fracture among elderly women. From a study that Birge and other researchers published last year in the *Annals of Internal Medicine*, they knew that



Older adults can work out at the OASIS exercise classes held regularly at several Famous-Barr stores. OASIS (Older Adult Service and Information System) is a non-profit national organization offering cultural, educational and wellness programs for anyone 60 years of age or older. The St. Louis OASIS program is affiliated with the School of Medicine, Jewish Hospital and The May Department Stores Co. Membership is free. For more information about OASIS, call 862-2933.

weight-bearing exercise added to bone mineral content in older women. Thus exercise would be one factor to investigate in this new study.

But they decided not to limit their focus to exercise, and instead to take a global approach. They initiated a research project, still on-going, in which they survey patients about their backgrounds, diet, medical histories, exercise patterns and recent falls. So far, they have interviewed some 60 elderly hip fracture patients and 55 control subjects admitted to the hospital for non-elective surgery.

They also assessed the speed at which the central nervous system processes information by asking each subject to complete a simple paper and pencil test. The participant is required to appropriately connect circled numbers and letters. The subject begins with the circled number 1, connecting it to the letter A, then A to 2, 2 to B and so on, in a continuous sequence. Subjects with dementia, visual or upper-motor impairment and depression were excluded.

"We found to our surprise that impaired central processing of information was a very important risk factor for hip fracture in this population," says Birge. Surgical controls did 78 percent better than hip fracture patients on the test.

They also found that people who participated in some form of regular exercise performed better on the test than those who did not. People who walked for exercise reduced their risk of performing poorly by 40 percent; those who played tennis reduced their risk by 75 percent.

These findings tied in with results from phase one of their four-part study, in which they examined the epidemiology of falls. In this work, Washington University Medical Center investigators had looked at 1350 people randomly selected from the community. A significant association was observed between a poor performance on the central processing

test with persons reporting either multiple falls or hip fracture. A poor performance was associated with a two-fold increased risk of a fall in one year and a 5.7-fold increased risk of having experienced a hip fracture.

"Again we found that central processing appears to be a very important, if not *the* most important determinant of people who fall," Birge says.

### Implications

That could mean, he says, that there is a physiological basis for the old saying that when people retire, they often "go to pot." A study published last year in *Science* by Eugene Johnson, professor of pharmacology at Washington University School of Medicine, showed that when neurons in the brain are not nurtured, they simply self-destruct. Perhaps adequate exercise, along with intellectual stimulation and other factors, is part of that nurturing process, Birge speculates.

"The brain may be somewhat like a muscle," he says. "If you don't use it, you lose it."

With that loss, an inactive 80-year-old who suddenly tripped and fell might not realize it quickly enough to react. "There is enough delay in processing the information, then in signaling it to the appropriate muscles, that by the time the information is generated, the person has hit the ground," says Birge.

That loss of central processing speed also affects "fluid intelligence," those intellectual functions that require a rapid grasp of new information, such as learning a name or phone number. Studies by other researchers have shown that exercise may also improve some cognitive functions, such as short-term memory. But it does not affect "crystallized intelligence," or long-term acquired knowledge.

What happens when people try to regain some of that lost central processing speed by beginning to

exercise at age 80? They can probably recapture a good deal, Birge says, though they will never have what they did at age 30. Nor can they equal the person who has continued to exercise since age 30.

"Once lost," he says, "some is probably lost forever."

### Future Plans

Statistics show that at around age 70, the incidence of wrist fractures levels off, but the number of falls and hip fractures increases dramatically. Clearly, hip fracture victims are not using their hands to break falls; instead, full force is being directed to the hip.

Birge's group is now comparing the central processing speed of wrist fracture patients with that of hip fracture patients. So far the study is showing, as expected, that people with wrist fracture have better central processing speed.

By adding that data to results of earlier research on the epidemiology and physiological mechanics of falls, they will create a complete profile for the causes and results of falls. The final phase of the study will examine psychological components of falls and hip fracture.

In the future, Birge's team will expand the studies of central processing speed, obtaining even more accurate measures using sophisticated, computer-assisted techniques. They have also begun studying central processing time before, during and just after exercise.

Their goal is to understand better the causes for hip fracture. "Only by knowing the cause can we develop rational strategies to prevent them," Birge says.

And by devising ways to improve central processing speed, they may also help the elderly to sustain more fully their cognitive function. "If we can maintain that intellectual function, we're going to do a great deal toward maintaining the quality of life in the older population," he adds.

Candace O'Connor



## Cancer institute awards Purdy \$1.4 million

James A. Purdy, Ph.D., professor and chief of radiation oncology physics at the School of Medicine's Mallinckrodt Institute of Radiology, has received a \$1.4 million contract from the National Cancer Institute.

The contract calls for Purdy's research group to further develop and refine computer-based, three-dimensional support systems used in radiation treatment planning for cancer.

The research will utilize anatomical detail and tissue density information provided by computed tomography and make use of high-speed numerical processing and realtime display systems to calculate and evaluate radiation delivery.

Purdy will lead an interdisciplinary research team made up of medical physicists, computer scientists and physicians from the School of Medicine. The team will work with researchers from the University of Washington in Seattle and the University of North Carolina to develop a user/computer interface for 3-D treatment planning tools.

Such systems will enable cancer specialists to individualize plans for treating patients by aiming the maximum dose of radiation directly to the tumor without damaging healthy tissue nearby.

## Cholesterol study needs volunteers

The Lipid Research Center at the School of Medicine is seeking individuals who have suffered a heart attack to participate in a study to test a cholesterol-lowering medication.

Participants will receive physical examinations, electrocardiograms, laboratory tests and eye exams. Most visits will involve having blood drawn and seeing a registered dietitian. Patients will be followed for approximately five years.

Principal investigator for the study is Anne Goldberg, M.D., assistant professor of medicine. The project is funded by Squibb Corp., manufacturers of the primary medication used in the study.

To be eligible, participants must be 21-75 years old with moderately elevated cholesterol levels, and must have suffered a heart attack within the last 14 months. Women may not be of child-bearing potential.

For more information, call the Lipid Research Center between 1 and 4 p.m. Monday through Friday at 361-8841.

## Grant elected to executive faculty

Neville Grant, M.D., has been elected as a representative of part-time faculty members to the Executive Faculty of the School of Medicine.

He was chosen by the school's part-time faculty to serve on the council, which is the school's governing body.

Grant's internal medicine practice is with the Grant Medical Clinic, 114 N. Taylor. He also is professor of clinical medicine at the School of Medicine and is on staff at Barnes, St. Luke's and Missouri Baptist hospitals.

Grant is a member of numerous societies including the American Society of Internal Medicine, American Diabetes Association, Endocrine Society and the American Medical Association.



Damien Adamiuk, his mother, Halina, and aunt Lidia Filipowicz spend a playful moment in front of St. Louis Children's Hospital. While here, Damien became a hit with the press. Upon release from Children's Hospital four days after surgery, he blew kisses to reporters who had gathered to see him off.

## Physicians here open arms to Polish family

Thanks to doctors at Washington University Medical Center, 19-month-old Damien Adamiuk is returning home to Poland with rosier cheeks — and rosier fingers, arms, legs and toes — than he had when he left a few weeks ago.

Damien was born a blue baby. He had a defective heart that was unable to pump enough oxygen into his blood and provided poor circulation, both life-threatening situations. Doctors in Poland, working with outdated imaging equipment, could not properly diagnose his heart defects and therefore did not know what to do to save the little boy's life.

His aunt, Lidia Filipowicz of Geneva, Switzerland, contacted pediatric cardiologist Charles E. Canter, M.D., at St. Louis Children's Hospital after reading an article in which Canter discussed a new noninvasive technique that produces precise three-dimensional images of the heart for assessment before surgery. The technique was developed recently by Canter's colleagues,

Michael W. Vannier, M.D., professor of radiology at the School of Medicine's Mallinckrodt Institute of Radiology, and John C. Laschinger, M.D., assistant professor of surgery.

The completely safe process uses a computer to align and stack two-dimensional magnetic resonance imaging scans into a three-dimensional picture, requiring no catheterization or injection of dyes. The heart that appears on the computer screen looks just like the heart inside the patient, complete with flaws.

Doctors here hoped this, in conjunction with other diagnostic procedures, would help determine the cause of Damien's problems so they could recommend surgery or other appropriate treatment to his doctors in Europe.

Arrangements were made for Damien and his mother, Halina Adamiuk, and aunt — the only member of the family who speaks English — to fly to St. Louis for the testing. Results indicated that Damien has a very unusual and lethal condi-

tion: His heart has only two chambers, rather than the standard four.

Doctors agreed that sending Damien home without surgery would be risky, and that to save his life, they needed to insert a tube in the heart to improve blood flow to his lungs. The two-hour operation, led by Thomas Spray, M.D., director of pediatric cardiovascular surgery, was a success. Damien's coloring immediately improved. "Look how pink he is!" his aunt exclaimed when she saw him after surgery.

Because of the family's limited budget and lack of health insurance, all of the physicians involved have donated their time to keep fees at a minimum. Housing was provided at the Ronald McDonald House, and the airlines waived the flight fare.

Damien will need to have more surgery in the future. His doctors say that when the time comes, the 3-D images he is taking home will greatly aid his surgeons in pre-operative planning.

## Majerus awarded MERIT status for blood clotting research

Philip W. Majerus, M.D., professor of medicine and biological chemistry at the School of Medicine, has been honored for his scientific contributions by receiving MERIT status for his latest grant.

The five year grant, totalling \$2.3 million, is from the National Heart, Lung, and Blood Institute, part of the National Institutes of Health. MERIT (Method to Extend Research in Time) status provides long-term, uninterrupted financial support to investigators who have demonstrated superior achievement during previous research projects.

"Philip Majerus is a frontrunner in the field of hematology/oncology," said William H. Danforth, chancellor of Washington University. "He has played a key role in our understanding of how blood cells respond to environmental signals, specifically in the area of blood clotting. In the 1970s his lab discovered how aspirin prevents heart disease, leading to its widespread use as a preventive medicine. His efforts to understand thrombosis better are most deserving

of MERIT status."

Researchers cannot apply for MERIT status, but are chosen in recognition of their consistent commitment to excellence. Those who receive MERIT status are freed from time-consuming paperwork and other delays associated with grant renewal applications, and may also obtain a three- to five-year extension of their grant, based on an expedited review of work accomplished during the initial period.

Majerus is known for his research on the role of platelets in forming blood clots and for the discovery of mechanisms by which cells respond to hormones and other external agents. These responses follow the formation of several different messenger molecules that carry signals from the cell's surface to its interior and to other cells. Interference with the formation of one such messenger provides the basis for the use of aspirin to prevent blood clots.

Majerus was the first to conduct clinical research indicating that daily low doses of aspirin can help prevent

possibly fatal thrombosis\* (blood clotting) in kidney dialysis patients, without harmful side effects. His study suggested that aspirin might prevent clotting among patients who had already suffered one such occurrence, and indicated that healthy persons might take aspirin on a regular basis to reduce the possibility of a heart attack. A follow-up study conducted at Harvard University and published last year in the New England Journal of Medicine confirmed Majerus' preliminary work.

Current work involves studying an endothelial cell protein called thrombomodulin, a natural anticoagulant molecule, and several new enzymes and metabolites he and his colleagues recently discovered, which are involved in generating cell messages.

Majerus is co-director of the Division of Hematology-Oncology, principal investigator and director of the Specialized Center for Research in Thrombosis, and a physician at Barnes Hospital at the Washington University Medical Center.



# MEDICAL RECORD

## Volunteers needed for Parkinson's/Alzheimer's study

Researchers at the School of Medicine need Parkinson's disease patients as volunteers for a study on the link between Parkinson's disease and Alzheimer's disease.

The project is conducted by the Memory and Aging Project, which carries out long-term research on intellectual function in older adults. The study is one of several funded through a \$4 million five-year grant renewal that the Memory and Aging Project received earlier this year.

"Clinically and pathologically, there is evidence that these two diseases occur together frequently," explains principal investigator John C. Morris, M.D., assistant professor of neurology and associate director of the Memory and Aging Project.

"Many Alzheimer's disease patients eventually develop some clinical signs of Parkinson's disease, and conversely, many Parkinson's disease patients develop some signs of Alzheimer's. Also, our preliminary studies have found pathological evidence in the brains of deceased patients that the two diseases often are associated."

To determine the relationship between Alzheimer's and Parkinson's, Morris will assess intellectual and motor function in Alzheimer's patients, Parkinson's patients and healthy controls. He needs only patients over the age of 60 with a confirmed diagnosis of Parkinson's disease; subjects must be able to walk by themselves.

Participants will be interviewed by Memory and Aging Project doctors and nurses and given simple memory tests. They also will be evaluated to determine movement ability. All testing is free; reports of study results will be sent to personal physicians at the participant's request.

For more information or to volunteer, call the Memory and Aging Project at 362-2683 between 8:30 a.m. and 4:30 p.m., Monday through Friday.

## Alumni association has new president

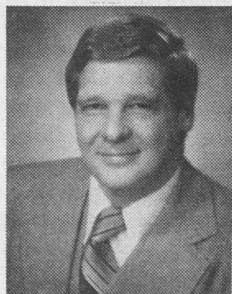
Roger L. Mell, M.D., has been named president of the School of Medicine Alumni Association.

Mell, an orthopedic surgeon at St. Luke's Hospital, is president of the Southern Medical Association as well as the St. Louis Orthopedic Society. He graduated from the School of Medicine in 1965.

Before joining the staff at St. Luke's Hospital in 1971, Mell was chief resident in orthopedic surgery at Barnes Hospital. He completed a surgical internship and assistant residency in orthopedic surgery there.

Mell's training also includes assistant residencies in general surgery at St. Luke's Hospital and in orthopedic surgery at the Shriner's Hospital for Crippled Children in St. Louis. In addition, he served as chief resident in orthopedic surgery at John Cochran Veterans Administration Hospital.

At St. Luke's, Mell is president of the Hospital Staff Association. He also serves on the board of trustees of the Southern Orthopedic Association.



Roger L. Mell



Pictured here at the Child Development Center's playground are (from left) Margaret Rossi, Joshua Heffron and Amy Schwartz enjoying summer outdoor play. When the warm weather subsides and children move indoors, coughs, colds and flu bugs spread more easily. That's why the center re-opens the TLC room for children recuperating from minor illnesses. The service is open to young children of medical school employees.

## TLC room is open to medical employees' kids

The Washington University/St. Louis Children's Hospital Child Development Center will re-open its TLC room for children recuperating from an illness on Sept. 5.

The TLC room, which is not offered during the summer, is open to children whose parents are employed by the School of Medicine, St. Louis Children's and Jewish hospitals. Children do not need to be enrolled in the center's regular program, but parents must either pre-register for the service or call before bringing the

child and register upon arrival.

Children in the TLC room are allowed to set their own pace, sleeping and playing when they want, according to Rosalyn Kleinberg, the center's director. She points out that the service is not for contagious illnesses and that children should be past the infectious stage before coming to the center.

The room is open from 8 a.m. to 5 p.m. at a charge of \$3.50 an hour.

The Child Development Center, a not-for-profit service, is located at

5457 and 5461 Highland Park Drive. Parents can enroll children aged 6 weeks through 2 years in the infant/toddler program, and those aged 3 through 6 years in the preschool/kindergarten program. Rates vary, depending on age and whether children are enrolled on a full- or part-time basis, but compare favorably to most area centers with similar features.

The center is open from 6 a.m. to 8 p.m. Monday through Friday. For more information, call 533-6737.

## Hepner to chair society for health care executives

James O. Hepner, Ph.D., professor of health administration and director of the graduate health administration program at the School of Medicine, has assumed the office of chairman-elect of the American College of Healthcare Executives.

Hepner will serve a consecutive three-year term as chairman-elect, chairman and immediate past-chairman with the College, a Chicago-based international professional society of more than 22,000 health care executives. The college works to enhance health care management through comprehensive programs in credentialing, professional assessment, education, career counseling, publications, research and public policy.

Prior to taking the chairman-elect position, Hepner served as a member of the college's Board of Governors, and has served as a member of its Council of Regents. He was the first full-time university faculty member in the college's 50-year history to become a college regent and governor, and is the first to become a chairman officer as well. He also holds fellowship status in the college, the highest level of professional recognition.

Hepner joined the staff at Washington University School of Medicine in 1967 as the first full-time director of the Health Administration Program. Prior to this, he served as the associate director of Jewish Hospital, a

sponsoring institution of the Washington University Medical Center. He has been a consultant to the Department of Health and Human Services as well as the U.S. Air Force Surgeon General. He is a past chairman of the board of directors of the Association of University Programs in Health Administration, and for five years was the director of the Interagency Institute for Federal Health Care Executives.

## Veterinary medicine — *continued from p. 1*

the University of Florida from 1968-1974.

A native of St. Louis, Hessler holds a bachelor's degree in animal husbandry from the University of Missouri at Columbia, and a master's degree in medical physiology from the University of Florida-Gainesville. He received a doctorate in



Jack R. Hessler

veterinary medicine in 1963 from the University of Missouri. He completed postdoctoral training as a U.S. Public Health Service fellow in laboratory animal/comparative medicine at the University of Florida College of Medicine.

For the last seven years Hessler

He has received the American College of Healthcare Executives' Silver Medal Award for outstanding contributions to the health care field and the Outstanding Health Care Leadership Award from the Hospital Association of Metropolitan St. Louis. He has written five books, contributed chapters for other books and has published numerous articles in professional journals.

has served on the accreditation council of the American Association for the Accreditation of Laboratory Animal Care, and since 1972 has been an ad-hoc consultant on animal resources to the National Institutes of Health Division of Research Resources. He is a diplomate of the American College of Laboratory Animal Medicine, a board of trustees member of the American Association for Laboratory Animal Science, and active in several other national and state professional societies. He has written numerous journal articles and frequently has presented papers on his research at professional meetings.

Hessler's staff at Washington University includes two other former University of Tennessee staff members. Gerald A. Olson, D.V.M., is a new staff veterinarian, and Nancy Lou Kaiser Miller is coordinator of animal care.



# PERSONNEL NEWS

## Health insurance open enrollment in October

The annual open enrollment for health insurance will be conducted in October. During the open enrollment period, changes may be made in Washington University health insurance plans without an interruption of coverage. If you are not participating under one of the University's health insurance plans, you may enroll during the open enrollment period.

The following rules apply if enrollment for health insurance is for the first time. You may enroll in one of our Health Maintenance Organizations, Partners or Group Health Plan; or TIAA Major Medical for coverage on Dec. 1, 1989. To enroll in Blue Cross-Blue Shield you must complete a health statement, and approval is required from Blue Cross-Blue Shield before the coverage can be put into effect. In addition, if your coverage is approved by Blue Cross-Blue Shield, there is a one-year pre-existing medical condition coverage limitation. These rules also apply if you are enrolling your dependents for the first time on Blue Cross-Blue Shield.

New rates and plan changes will be published at the time of the open enrollment. Enrollments into Partners, Group Health Plan or TIAA Major Medical, or transfers from one of these plans into Blue Cross-Blue Shield, will be effective Dec. 1, provided you are actively at work and your dependents are not confined to a hospital. Coverage will be effective when you return to active work or your dependents are released from the hospital. For employees not previously covered by another plan who must complete health statements for Blue Cross-Blue Shield, coverage will be effective on the first of the month after approval by Blue Cross-Blue Shield.

Dental insurance is not part of the open enrollment. Employees not previously enrolled can enroll in the dental insurance plan any time during the year subject to a three-month wait for coverage. There is an additional two-year waiting period for orthodontic benefits. The waiting period also applies for dependents if it is a late enrollment.

### Health insurance allowance

The increase in the University allowance for health insurance was effective in July. The allowance

increased from \$110 to \$124 for full-time non-union employees and from \$55 to \$62 for part-time non-union employees working 50 percent time with one year or more of service.

### Blue Cross-Blue Shield

The Blue Cross-Blue Shield Alliance Program is a Preferred Provider Organization intended to encourage members to use Blue Cross and Blue Shield's network of alliance physicians, hospitals and surgical centers in the local service area. When a member uses an alliance provider, the services are provided at a reduced fee and the member realizes the full benefit of the BC-BS plan. If the member uses a non-alliance physician, hospital or surgical center within the service area, benefits will be reduced.

The Blue Cross plan provides 100 percent coverage for a semi-private room for up to 70 days in the hospital. If a non-alliance hospital is used member pays 20 percent of the bill. The Blue Shield plan provides 80 percent of coverage for a physician's fees, generally for inpatient care. If an alliance physician is used, the member pays 20 percent of his fees. If a non-alliance physician is used, the member pays 20 percent of the alliance-approved amount plus any amount the physician charges in excess of the alliance fee.

Currently, there are about 2,000 alliance physicians, 21 alliance hospitals and two alliance surgical centers in the St. Louis area from which members can choose. The program does not apply to Medicare participants who are enrolled in the Senior Complimentary Program.

### Baby coverage reminder

Participants in any of the University's health plans must notify the Personnel Office of the birth of a baby and complete the appropriate forms to add the newborn baby to their health plan coverage. The completed forms must be submitted to the Personnel Office within 31 days after the birth of the baby.

### Partners HMO

PARTNERS HMO announced the addition of KARE Drugs through National Supermarkets as a new HMO pharmacy provider, effective Aug. 1, 1989.

arrangements prior to contacting CDCA.

Parents who prefer to use University-affiliated day care can obtain Children's Hospital Day-care Center brochures and contact information from the Personnel Office. The center is located midway between the Medical Campus and the Hilltop Campus. Children of Hilltop employees are admitted into the program as space allows. For more information, call 533-6737.

Also available is a brochure that contains information about the 20 largest St. Louis day-care centers. Updated annually by the St. Louis Business Journal, this chart is one of the most accurate references available on local day-care centers.

Additional information on day-care resources may be found in Sorkin's Directory of St. Louis Business and the United Way Directory.

## Personnel names assistant director for employee benefits programs

Andrea M. Tichenor has been appointed assistant director of personnel for employee benefits.

Tichenor has 12 years of experience in the area of employee benefits.



Andrea M. Tichenor

where she was senior consultant for employee benefits.

She has held positions as benefit analyst, consultant and account executive for benefit consulting firms. She came to Washington University from Corroon & Black of Missouri Inc.,

Tichenor earned a bachelor of arts degree in art history from St. Louis University, graduating Magna Cum Laude. She holds certification as an employee benefit specialist (CEBS) and has served as secretary and treasurer for the St. Louis Chapter of the International Society of Certified Employee Benefit Specialists. She also is a licensed life and health broker with the State of Missouri Insurance Division.

"Washington University is fortunate to have a professional with Tichenors' training and experience to manage the University's employee benefit programs," says Gloria W. White, vice chancellor for personnel.

Tichenor has a daughter, Kelly.

## FHA/VA mortgage loans are offered through St. Louis Teachers Credit Union

When St. Louis Teachers Credit Union opened the Mortgage Loan Department in February 1988, their ultimate goal was to become a "full service" mortgage lender.

A complete line of conventional loans offering fixed and adjustable rates were first introduced in February. In June 1988, the credit union developed an in-house mortgage loan program offering 15-year fixed rate mortgages with reduced rates, low points and payroll deduction.

Throughout the development of these programs, SLTCU monitored the mortgage lending wants and needs of SLTCU members. Due to the overwhelming request for government insured loans, SLTCU has announced the addition of FHA and VA Mortgage Loans.

"With the addition of the FHA/VA Mortgage Programs, I believe the credit union can help even more members obtain their dream home. This program gives the member more

avenues to pursue when inquiring about a mortgage loan," says Karen Koch, mortgage loan supervisor.

FHA loans make it possible to purchase a home with a lower downpayment than what is usually required on a conventional loan. If a person is a veteran and entitled to VA benefits, 100 percent financing may be obtained.

To be able to offer these government insured loans, the credit union entered into a business relationship with Town and Country Mortgage Co. It is considered a well-established, reputable institution that will work well with the mortgage loan department of SLTCU. Together the credit union and mortgage company will work toward meeting the members' FHA and VA mortgage lending needs.

For more information or an appointment to discuss mortgage lending programs, call Karen Koch at the Forest Park Office, 534-7610, extension 109.

## Systems librarian search on; research, clerical/secretarial positions open

Washington University is conducting a professional search to fill the position of systems librarian at Olin Library.

Qualifications for the position are: MLS from an ALA-accredited library school or graduate degree in a discipline related to information science. Working experience in a library processing environment, preferably one using the Notis system. Programming experience and/or coursework in assembler language and/or a block-structured higher level language, preferably on a main-frame machine. Knowledge of interactive transaction processing and batch text processing applications desirable.

Main duties: Participates in the ongoing development of an automated library information system and helps to maintain the efficient operation of existing automated processes.

Send letter of application, resume and three letters of reference to: Virginia F. Toliver, Director of Library Personnel and Administrative Services, Olin Library, Washington University, Campus Box 1061, One Brookings Drive, St. Louis, Mo. 63130-4899. Applications will be accepted until Oct. 31, 1989, or until the position is filled.

In addition to the professional search, there are numerous openings in the clerical/secretarial and research fields. Current staff openings on the Hilltop Campus follow: Accounting/

Bookkeeping - 2 positions; Clerical - 8 positions; Counseling - 2 positions; Drafting - 1 position; Lab Technician - 2 positions; Librarian - 4 positions; Library Assistant - 3 positions; Maintenance - 1 position; Programming - 2 positions; Secretarial - 9 positions; Word Processing - 1 position; Part-time - 9 positions.

In addition, qualified candidates are being sought to fill secretarial and medical research positions on the Medical Campus. These positions include the following: Vocational rehabilitation counselor - 1 position; social worker, MSW-ACSW - 1 position; statistical data analyst - 1 position.

Information about these and other positions is available through the Hilltop Campus Personnel Office, Room 126 of North Brookings Hall, 889-5990, and the Medical Campus Personnel Office, 4550 McKinley Ave., 362-7195.

## Personnel News

Personnel News appears monthly in the Record and is prepared by Gloria W. White, vice chancellor for personnel and affirmative action, and other members of the Personnel Office. Personnel News is designed to keep Washington University employees and their families informed of the benefits and opportunities available at the University.

## Day care information available

Finding reliable and adequate care for children while one or both parents are at work is sometimes difficult and often a concern. With this in mind, the Nonacademic Personnel Advisory Committee, with the assistance of the Personnel Office, has compiled information on a variety of resources available to Washington University employees.

One option is the Child Day Care Association of St. Louis (CDCA), a United Way agency established for the purpose of planning, developing and coordinating day-care programs in the metropolitan St. Louis area. It provides information and referrals to help parents locate and select appropriate day-care programs.

The University will reimburse employees who choose to use the services of CDCA. Interested employees should contact the Personnel Office to make reimbursement



# NOTABLES

**Kathleen E. Brickey, J.D.**, George Alexander Madill Professor of Law, published an article on "The Foreign Corrupt Practices Act Amendments of 1988" in the Corporate Criminal Liability Reporter. She has been chosen to prepare a report on "Civil RICO Applications in the Highway Construction Industry" for the Transportation Research Board. The project is sponsored by the National Academy of Sciences. The Michie Co. selected her article on "Tainted Assets and the Right to Counsel — The Money Laundering Dilemma" for publication in the summer issue of the Criminal Practice Law Review. Her commentary article titled "This Right-to-Counsel Claim is Illusory" was published in the April 17th edition of The Legal Times.

**Sharon D. Clark**, director of administration for the School of Technology and Information Management, received the 1989 Educator of the Year Award presented by St. Louis Chapter 17 of the Society for Manufacturing Engineers (SME), a professional society that offers seminars and training in engineering. SME is an international organization with chapters throughout the United States. It was at Clark's invitation that Chapter 17 established a student chapter at Washington University in 1984.

**Susan Crawford, Ph.D.**, director of the medical school library and professor of biomedical communication, recently received the Distinguished Graduate Award from her alma mater, the University of Toronto. The award, presented on the 60th anniversary of the Faculty of Library and Information Science, cited Crawford's outstanding contribution to the field of library and information science. Crawford also was elected recently to the board of overseers of the University Libraries of Tufts University, Boston. The board is responsible for policy governing the university's entire library system.

**Gray L. Dorsey, J.S.D.**, Charles Nagel Professor of Jurisprudence and International Law Emeritus, has been elected as the honorary president of the American Section of the International Association for Philosophy of Law and Social Philosophy. In the mid-60s, he was one of the founders of the section. He was president of the international association from 1975-79.

**Frances Foster-Simons, J.S.D.**, associate professor of law, has written an article, titled "Restructuring of Soviet Legislation," to be published in the Stanford Journal of International Law. She addressed the Washington University alumni chapters in San Antonio and Dallas, Texas, on recent Soviet legal reforms and the future of Mikhail Gorbachev and his programs. She also spoke at the Bryan, Cave, McPheeters & McRoberts law firm's quarterly luncheon. Her speech was titled "The Mathias Rust Case: The Soviet Legal System on Trial."

**Jack Hartstein, M.D.**, associate professor of clinical ophthalmology, was an invited guest speaker at the seventh Bi-annual International Contact Lens and Anterior Segment Conference, held recently in Toronto, Canada. He spoke on "The Disposable Contact Lens, Concept and Reality" and "Manual Cortex Extraction in Cataract Surgery."

**Mark A. Hassen**, a third-year medical student, recently published an article titled "Spreading of the Interface of a Polydisperse Sedimenting Suspension" in the Journal of Fluid Mechanics. A second article, based on work Hassen completed for his master's degree in

chemical engineering at the University of Colorado and on research conducted during the past two years, will appear in a future issue of the journal.

**Derek M. Hirst, Ph.D.**, professor of history, presented two papers at seminars in Cambridge, England. The papers were titled "Discipline and Demoralization in England in the 1650s" and "Royalist Culture During the English Republic." He also presented a paper, titled "The Politics of Literature in the 1650s" to the Chicago Regional Renaissance Association at Northwestern University.

**Rabbi Devorah Jacobson**, associate executive director of the Hillel Foundation at Washington University, was awarded a one-year sabbatical leave to study religion and psychology at the Harvard Divinity School. Jacobson, who began her sabbatical in July, also recently received senior director status in the Hillel movement.

**William C. Jones, J.S.D.**, professor of law, delivered a lecture on Chinese civil law at the New York University School of Law.

**Roland Jordan, Ph.D.**, associate professor of music, chaired the concluding plenary session of the Central Midwest Theory Society, held in Kansas City, Mo., leading a discussion and evaluation of the issues raised during the conference. He also presented a paper jointly with **Emma Kafalenos, Ph.D.**, lecturer in comparative literature, at the Narrative Literature Conference, held at the University of Wisconsin, Madison. The paper, titled "The Double Trajectory: Ambiguity in Brahms and Henry James," was presented in a section on narrative and music.

**Charles L. Leven, Ph.D.**, professor of economics, was invited by the Polish Academy of Science and the University of Lodz to spend a week in Poland during May as part of a seven-person American delegation. The delegation visited with local officials, toured several communities and engaged in extended discussions with Polish scholars in order to formulate plans for a proposed Polish-American cooperative study of economic development, environmental control and public-private partnership processes at the local level in anticipation of hoped-for decentralization over the next several years.

**Chakravarthi Narasimhan, Ph.D.**, associate professor of marketing, had his paper, titled "Incorporating Consumer Price Expectations in Diffusion Models," published in the summer 1989 volume of Marketing Science.

**F. William Orrick**, director of University Communication Services, and **Gloria W. White**, vice chancellor for personnel, attended the Midwest Regional Conference of the College and University Personnel Association (CUPA), held in Cincinnati, Ohio. Orrick was a presenter for the panel discussion on "Using Technology in Human Resources Administration," which involved discussion of current and future computer and telecommunications technology. White presented a session titled "Moving On Up," which focused on techniques for moving up the corporate ladder.

**Robert H. Salisbury, Ph.D.**, chair of the political science department and Sidney W. Souers Professor of American Government, attended the 47th Annual Meeting of the Midwest Political Science Association, held in Chicago. Other members of the

political science department who participated in the meeting were: **Barry Ames, Ph.D.**, professor; **Charles Franklin, Ph.D.**, assistant professor; **Victor T. Le Vine, Ph.D.**, professor; **Julie Withers**, visiting instructor in economics; and **Liane Kosaki, Ph.D.**, visiting assistant professor. Salisbury was a discussant for a panel on interest groups. Ames and Franklin chaired panels as well as served as panel discussants. Le Vine chaired a panel for which Withers was a discussant. Kosaki and graduate students **Christopher Gilbert** and **Douglas Warfel** presented papers. **Shaun Bowler**, who earned his doctoral degree from the political science department in 1988, received the Brooks-Cole Award for the best paper presented by a graduate student at last year's annual meeting.

**Karen L. Tokarz, LL.M.**, professor of law and director of clinical education, spoke to the St. Louis Women's Information Network on "Expanding the Legal Rights of Women in Missouri."

## Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070, or by electronic mail to p72245SS at WUVMC. Please include a phone number.

## NSF's young investigator awards go to engineers Indeck, Rabbitt

Two Washington University engineering faculty are among the 197 academic scientists and engineers to receive Presidential Young Investigator awards from the National Science Foundation.

Ronald S. Indeck, Ph.D., assistant professor of electrical engineering, and Richard D. Rabbitt, Ph.D., assistant professor of mechanical engineering, are eligible for up to \$100,000 per year for five years in a combination of federal and matching funds. The awards fund research by faculty near the beginning of their careers to help universities attract and retain outstanding young Ph.D. scientists who are committed to teaching careers as well as to research.

First announced in 1983, the awards represent a partnership among private industry, the federal government, the investigators and their academic institutions. Each grant consists of annual base funding of \$25,000 from the NSF, plus an additional amount up to \$37,500 in matching funds from NSF and the private sector.

Indeck and Rabbitt were selected based on an evaluation of their ability and potential as researchers and teachers who could contribute to the future vitality of U.S. scientific and engineering efforts. A panel of outstanding scientists and engineers from throughout the U.S. advise the NSF on

the selection of award recipients.

Indeck's research interests involve ways of storing and retrieving information, especially with magnetic recordings, including thin films. He researches devices that can read the information stored on magnetic recordings or thin films. He is developing a thin film laboratory to study the potential and limitations of magnetic recording.

He holds a bachelor's (1981), master's (1984) and doctorate (1987) in electrical engineering from the University of Minnesota. He joined the Washington University faculty in 1988.

Rabbitt researches the bio-mechanics of vibrations and acoustics, especially as they relate to the study of the ear. He has studied ways to measure the energy input into the ear with hopes of medical applications in the future.

Rabbitt has produced films and other graphics depicting images such as acoustic modes in the ear canal and vibrational shapes of the ear drum.

Rabbitt came to Washington University in 1987. He was awarded the Engineering Professor of the Year Award for excellence in teaching during his first year. He received his bachelor's and master's degrees from Michigan State University, East Lansing, in 1980 and 1982, respectively, and a doctorate from Rensselaer Polytechnic Institute in 1986.

## April Hamel is named assistant dean of arts and sciences' graduate school

April L. Hamel, Ph.D., director of graduate career services, has been appointed assistant dean of the Graduate School of Arts and Sciences, effective Aug. 1, according to Dean Edward N. Wilson, Ph.D.

"We are delighted to welcome to the graduate school someone with Dr. Hamel's proven capacity to provide high quality services to graduate students," Wilson said.

Hamel's duties as assistant dean will include alerting graduate students to financial aid opportunities, assisting Wilson in managing the graduate school and working with graduate school staff in providing support services to graduate students and departments.

Hamel has been affiliated with Washington University since 1987,

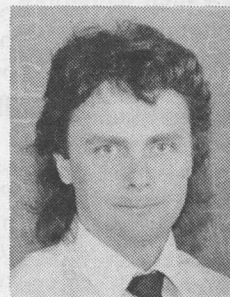
when she was named director of the Graduate Associate Program. She

subsequently was appointed director of graduate career services. She has served as an assistant professor of history at Harris-Stowe State College and as an assistant grant director at Saint Louis University.

Hamel has a bachelor's degree in public policy from Pennsylvania State University (1975) and a master's degree (1977) and doctorate (1983) in American studies from Saint Louis University.



Ronald S. Indeck



Richard D. Rabbitt



April L. Hamel



## Richard Walter receives second Fulbright grant to Argentina

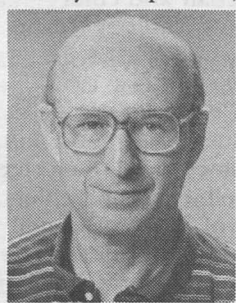
Richard J. Walter, Ph.D., professor of history and director of the International Affairs Program, has been awarded a Fulbright grant to Argentina under the American Republics Research Program. Walter, who began his study in late July, will spend six months in Argentina conducting scholarly research for a future book on the history of Buenos Aires.

"The book will be a scholarly work, but, I hope, of broad interest," Walter said. "The purpose is to introduce people everywhere to one of the world's most fascinating cities, and to tell them a little bit more about how it developed and how it was governed."

The American Republics Research Program is part of the Fulbright program, which is designed to encourage understanding between Americans and people of other countries. The program was established in 1946 under congressional legislation introduced by former Sen. William Fulbright of Arkansas. American Fulbright recipients lecture and

conduct research abroad, while foreign award recipients do similar work in the United States.

A specialist in Latin American history and politics, this is Walter's second Fulbright grant for research in Argentina. In 1981, he received a grant to study Argentine politics, and subsequently authored a book, *The Province of Buenos Aires and Argentine*



Richard J. Walter

*Politics*, which was published in 1985 by Cambridge University Press.

Walter joined Washington University's faculty in 1965. He served as chair of the history department from July 1977 to July 1981 and again from July 1982 to July 1987. He received his bachelor's degree from Duke University in 1961 and his master's and doctorate from Stanford University in 1962 and 1966, respectively.

## Computer experts to hold meeting here

Information systems experts from Holland, Germany, Canada and the United States will convene Sept. 6-8 at Washington University and the Stouffer Concourse Hotel to discuss the latest in computerized information systems in the business world.

The eighth annual Enterprise-wide Information Management (EwIM) conference is sponsored by the School of Technology and Information Management (STIM) and the IBM Los Angeles Scientific Center. The conference focuses on the advances in computer technology and how these principles can be applied to information systems in business and industry.

More than 30 talks are featured, plus a tutorial offered the afternoon of Sept. 5. More than 250 people are expected to attend the conference.

"Since its inception in 1984, the goal of the EwIM conference has been to reflect fundamental growth and change in the planning of information technology," says Robert Benson, J.D., STIM dean and a program speaker. "But the concepts we will discuss in 1989 have changed to encompass worldwide developments and competition as well as applications to the service sector."

According to Benson, over the past year EwIM has affected more than 1,100 professionals in 670 companies located throughout some 20 countries. Twenty-one new speakers will be on the 1989 program compared to last year's program.

For more information, call Benson at 889-5338, or Donna L. Skaggs, conference coordinator, at 889-4556.

## Assembly Series — continued from p. 1

Sheehan is a former Vietnam bureau chief for United Press International and also spent one year in Vietnam for The New York Times. He was the Times reporter who obtained the Pentagon Papers from Daniel Ellsberg and wrote the stories about the origins of the Vietnam War. The Pentagon Papers earned The New York Times a Pulitzer Prize for public service in 1972.

The Rev. William Sloane Coffin Jr., president of SANE-FREEZE, will speak on Sept. 27. His talk is titled "A Peace Economy: Spend for Defense or Social Needs?" SANE-FREEZE is the largest peace organization in the United States. For the past 25 years, Coffin has been a strong presence in the civil rights and peace movements. He was senior minister of Riverside Church in New York City and founded its Disarmament Program.

Coffin is perhaps best known as a member of the group of anti-war activists invited to Hanoi in 1972 to inspect the U.S. destruction of non-military targets and accept the release of three prisoners of war, and later, as one of three clergy who led Christmas services in Iran for the 52 U.S. Embassy hostages there.

Johnetta B. Cole, the first black woman to head Spelman College in Atlanta, Ga., is the keynote speaker for the Mr. and Mrs. Spencer T. Olin Conference Oct. 4. Her talk is titled "Education and Empowerment: Preparing Women for a New Century." Spelman is a 108-year-old liberal arts college for black women. Cole is included in the critically acclaimed 1989 photography exhibit titled "I Dream A World: Portraits of Black Women Who Have Changed America."

There will be no lecture on Oct. 11 due to the fall break.

Consumer advocate Ralph Nader, co-author of *The Big Boys: Power and Position in American Business*, will deliver the Isserman Lecture Oct. 18. He will speak on "Corporate Power in America."

A Harvard law school graduate, Nader has written numerous consumer-oriented books, including *Unsafe at Any Speed: The Designed-in Dangers of the American Automobile*, which caused a national stir when it was published in 1965. He also was co-editor of the book *Corporate Power in America*. He has built a powerful network of citizen action groups across the country that have launched investigations into everything from tax reform to nuclear energy.

Robert MacNeil, co-producer, co-

anchor and executive editor of public television's "The MacNeil/Lehrer NewsHour," will speak on "Coming to Grips With the World" Oct. 25. "The MacNeil/Lehrer NewsHour" is America's only national hour of evening news. It began in 1983 as an outgrowth of "The MacNeil/Lehrer Report," a half-hour program that won more than 30 awards for journalistic excellence.

The Nov. 1 Black Arts and Sciences Festival lecture will be announced later.

Arno Mayer, professor of history at Princeton University, will speak Nov. 8. His talk is titled "Terror and Violence Under Hitler and Stalin." He is the author of *Why Did the Heavens Not Darken?* a revisionist view of the Holocaust.

At 4 p.m. Thursday, Nov. 9, Walter Alvarez, a geology professor at the University of California at Berkeley, will speak on "Giant Impacts and Extinction of Life on Earth." Alvarez is the leader of a Berkeley group of scientists that believe the nation's dinosaurs were killed by the effects of one or more comets, an idea accepted by many geologists. However, an alternative theory by Dartmouth College scientists suggest a volcanic episode led to the dinosaurs' extinction. The discussion is regarded as one of the most important scientific debates of the 20th century.

Wendy Wasserstein, author of the 1988 Pulitzer Prize-winning play "The Heidi Chronicles," will deliver the Nov. 15 Woman's Club of Washington University Lecture. Wasserstein also won a 1988-89 Tony Award for the play, which explores a contemporary woman's odyssey from the 1960s to the 1980s. She is the first woman to win a Tony Award as the author of an original play and only the third woman in recent years to win the Pulitzer Prize for drama.

Maurice Sendak, an author and illustrator of numerous children's books, will speak Nov. 29. His talk is titled "Descent Into Limbo — The Creative Process." Sendak wrote and illustrated the classic children's book *Where the Wild Things Are*, for which he won the Caldecott Medal. His latest illustration project is *Dear Mili*, a never-before-published tale written by Wilhelm Grimm. He also has illustrated some 80 books by other writers. He was the first and, to date, the only American illustrator to receive the Hans Christian Andersen Medal.

For more information on Assembly Series lectures, call 889-5285.

## Ruger is named association's president

Peter H. Ruger, J.D., Washington University's general counsel, has been elected the 1989-1990 president of the National Association of College and University Attorneys (NACUA).

Ruger, a University alumnus, has served on NACUA's board of directors since 1981, having held the offices of first vice president, second vice president and, most recently, president-elect. NACUA is a non-profit educational organization whose membership includes nearly 2,500 attorneys representing 630 institutions (and



Peter H. Ruger

some 1,200 campuses). Its primary mission is to improve the quality of legal assistance to higher education by advising attorneys and administrators on campus legal issues.

NACUA produces publications, sponsors workshops and conferences, and operates a clearinghouse through which attorneys share their knowledge and experience, as well as sample institutional policies and procedures.

A former assistant attorney general of Missouri, Ruger has served as Washington's general counsel since 1974. He has a bachelor's degree in history from Denison University (1963), and both a master's degree in history (1966) and a law degree (1969) from Washington University.

## NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

**While surgery is most often used to clear blocked Fallopian tubes**, doctors at the Mallinckrodt Institute of Radiology, led by Bruce L. McClenan, M.D., professor of radiology, are now performing a non-surgical procedure to reverse that common cause of female infertility. A report about this research was aired by KNBC-TV in Los Angeles on April 30. Other stations that used this material included: Glendale (Ariz.) Cable Channel 4, WNYT-TV Channel 13 (NBC) in Albany, WNEW-TV in New York City, KMBC-TV in Kansas City and Voice of America-Europe in Washington.

**A drug treatment traditionally used to control high blood pressure** has been found to help relieve — without surgery — problems resulting from enlarged prostate glands, says Harold Lepor, M.D., assistant professor of surgery, in an interview that was aired during April on WXEX-TV Channel 8 in Richmond, Va. Lepor and other medical authorities say nearly all men 60 or older have enlarged prostates,

and that almost one in four who live to 70 will face corrective surgery. The strong possibility that there may be an alternative treatment will be good news for millions of aging men. Other stations that used this story included: WNYT-TV Channel 13 (NBC) in Albany, WSIA-TV in Washington, WLEX-TV in Lexington, Glendale (Ariz.) Cable Channel 4, and radio's Voice of America-Europe in Washington.

**A series of multiple full-page features about addictions** by *Dallas Morning News* science editor Tom Siegfried appeared in this paper between April 9 and April 13. The four Washington University experts who were quoted and their topics are: Theodore Reich, M.D., professor of psychiatry, genetic aspects of alcoholism; C. Robert Cloninger, M.D., professor of psychiatry, genetic aspects of alcoholism and the "just-say-no-to-drugs" campaign; Lee Robins, Ph.D., professor of sociology in psychiatry, heroin addiction; and Edwin B. Fisher, Ph.D., associate professor of psychology, cigarette smoking. Among other newspapers that used the features were the May 22 *Albany Times-Union*, the May 24 *York (Penn.) Daily Record* and the June 5 *Wilkes-Barre (Penn.) Times-Leader*.



# Dental school closure decision headlines summer news

From the Board of Trustees decision to close the School of Dental Medicine, to the memorial service in Brookings Quadrangle for the pro-democracy students killed in Beijing, Washington University made headlines this summer. Below is a recap of the major news stories that appeared in the June, July and early August issues of the Washington University Record.

- Chancellor William H. Danforth announced June 2 that the Board of Trustees decided to close the School of Dental Medicine. The University attributed the closing to the severe economic pressures faced by private dental schools across the nation. Several other schools affiliated with private universities have been closed or are in the process of closing, primarily because they cannot exist without subsidy from state governments in a time of declining enrollments, escalating costs and an adequate supply of practicing dentists.

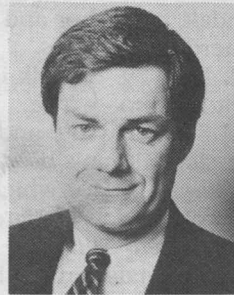
"For more than two decades, we have struggled to build a strong dental education and research program," noted Danforth. "I know that Dean Bensinger, the faculty and the staff have worked diligently and earnestly to build a good program. I regret that circumstances affecting all dental education programs throughout the nation are more formidable than even their most herculean efforts could overcome."

- Richard J. Smith, D.M.D., Ph.D., was appointed dean of the School of Dental Medicine and will guide the school through its closure, Danforth announced. Smith has been associate dean at the school since 1987. He replaced David A. Bensinger, D.D.S., whose appointment as dean in 1986 ended June 30, 1989, coinciding with his retirement.

In a statement following the dental school announcement, Danforth said the University is healthy, thriving and achieving major goals in teaching and research. His statement was made in light of the April 11 announcement that the Faculty of Arts and Sciences was phasing out its sociology department.

- More than 300 Chinese and Americans held a memorial service June 7 in Brookings Quadrangle for the pro-democracy students killed June 4 in Tiananmen Square in Beijing. Those attending the two-hour vigil listened to speeches denouncing the attack on the students by Chinese soldiers. During the rally, organizers read messages of support from area governmental leaders and Chancellor William H. Danforth. Closing the service, participants lit red candles and lined them up along the quadrangle's walkways. Some supporters kept an all-night vigil in the quadrangle.

- Charles S. Nolan, Ph.D., was appointed assistant provost and dean of admissions.



Charles S. Nolan

"Charles Nolan's extensive experience and credentials in undergraduate admissions will enhance Washington University's excellent progress in attracting quality students," said Provost Edward S. Macias, Ph.D. Nolan will report to the provost.

Nolan was director of undergraduate admissions at Boston College in Chestnut Hill, Mass., since 1980.

- A memorial service was held in Graham Chapel June 27 for Beryl H. Manne, supervisor of University

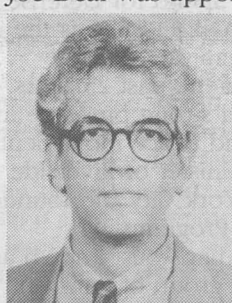
Archives, who was found stabbed to death in her home June 22. Her husband Stanley Manne, who was reported in the local press to allegedly have had a history of psychiatric problems, was charged with the murder.

- Gerhild Scholz Williams, Ph.D., professor of German and comparative literature and chair of the Department of Germanic Languages and Literatures, was appointed associate provost. Williams continues her duties as chair of the German department and will work part time as associate provost.

- Two School of Medicine faculty were elected members of the prestigious Institute of Medicine of the National Academy of Sciences. Harvey R. Colten, M.D., and C. Robert Cloninger, M.D., are two of 40 new members of the institute, which was created in 1970 to examine public health policy matters.

- Two faculty at the School of Medicine were elected as fellows of the American Academy of Arts and Sciences, one of the nation's oldest societies of leaders in science, scholarship, the arts and public affairs. The new fellows are William H. Daughaday, M.D., lecturer in medicine, Irene and Michael Karl Professor of Medicine emeritus, and Emil R. Unanue, M.D., Edward Mallinckrodt Professor and head of the Department of Pathology.

- Photographer and academician Joe Deal was appointed dean of the



Joe Deal

School of Fine Arts, beginning this fall. Deal comes to Washington from the University of California, Riverside, where he was professor of art and associate dean of the College of Humanities and Social Sciences.

- Cited as "a university art museum at its best," the Gallery of Art has received accreditation from the American Association of Museums (AAM). In its report, the AAM noted that the gallery added "substantially to the richness of the cultural life of both the university and St. Louis."

- More than 6,000 people stayed in Washington University housing this summer. The 6,000 figure includes 1,300 people who were part of the second U.S. National Senior Olympics held at Washington June 19-24.

- Civic and business leader Clarence C. Barksdale was elected vice chair and a member of the University's Board of Trustees. The newly created position is a full-time appointment. Barksdale's duties include representing the University and the board in civic activities and helping the University to work more effectively with the community.

- As part of a pilot research project designed to introduce and attract students to the biomedical sciences, five St. Louis high school biology teachers worked for one month as active partners in immunology labs at the School of Medicine and Jewish Hospital. Based on their laboratory experience, each will develop an instructional activity in immunology for their classroom.

- Mark Twain Bancshares Inc. issued a challenge grant to establish the Mark Twain Scholars program at the University's John M. Olin School of Business. The program will fund scholarships for a minimum of four MBA students per year beginning this fall. Meanwhile, The Kresge Founda-

tion of Troy, Mich., awarded the School of Engineering a \$750,000 challenge grant toward construction of Jolley Hall, the school's 52,000 square-foot facility, and toward purchase of laboratory equipment.

- Sam Fox, chair and chief executive officer of Harbour Group Ltd., St. Louis, was elected to the Board of Trustees. Fox is a 1951 graduate of the University's John M. Olin School of Business. In addition, three former trustees were re-elected: John F. McDonnell, chair and chief executive officer of The McDonnell Douglas Corp.; Mary Dell Pritzlaff, a civic and charitable leader in Phoenix, Ariz.; and William H. Webster, director of the Central Intelligence Agency, Washington, D.C.

- Kathleen F. Brickey, J.D., professor of law, was appointed George Alexander Madill Professor of Law.

- Robert H. Salisbury, Ph.D., Sidney W. Souers Professor of American Government and chair of the political science department, was awarded a Guggenheim Fellowship in

recognition of distinguished achievement and exceptional promise.

- Michael K. Pasque, M.D., assistant professor of surgery, was named director of heart transplantation at Barnes Hospital and the School of Medicine. He also will head the pediatric heart transplant program at St. Louis Children's Hospital in the medical center.

- The contributions of Jane Loevinger, Ph.D., the William R. Stuckenberg Professor Emerita of Human Values and Morality, was the subject of a symposium at the American Psychological Association meeting in New Orleans Aug. 11-15. Loevinger designed the classic Sentence Completion Test for measuring personality development. She gave an address during the gathering.

- Ming-Shian Kao, M.D., was named director of the Division of Gynecologic Oncology in the Department of Obstetrics and Gynecology at the School of Medicine. He is professor of obstetrics and gynecology at the School of Medicine.

## Emeritus Professor Joseph Towle dies; taught 21 years in business school

Joseph W. Towle, Ph.D., an internationally known expert in personnel management and a respected teacher in the business school for 21 years, died July 29 after suffering a heart attack. He was 79.

Towle was well known for his management-education and business-policy programs. He joined the faculty in 1954 and was named professor emeritus of management in 1975. He served as acting dean of the business school in 1967-68.

"Joe Towle was totally dedicated to the betterment of Washington University and our school," said Robert L. Virgil, D.B.A., business school dean. "He was a good, cheerful person. He always saw the bright side and always was ready with a cheerful greeting."

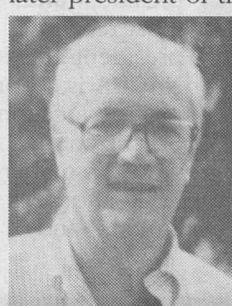
Towle was deeply interested in business ethics, and a collection of essays on the subject that he edited in 1976 still is cited in business research. He also directed the business school's Management Study Program from 1960 to 1969.

"Joe took great pride in the Management Study Program," said Virgil. "He also found it very meaningful to be involved in the school's government-sponsored project from 1958-1964 to assist in the development of the business schools at

Yonsie and Korea universities in South Korea."

A native of Potosi, Mo., Towle held undergraduate degrees from Principia College in Elsah, Ill., and Lehigh University in Allentown, Pa. He received a master's degree in 1938 and a doctoral degree in 1948, both in business administration from Northwestern University, where he also taught.

Towle was a charter member and later president of the Academy of



Joseph W. Towle

Management and an active member of Freedom Foundation at Valley Forge, Pa. He also served as president of the St. Louis Carriage Association and co-chairman of the board of trustees of the campus YMCA-YWCA. He and his wife, Patricia Ellwood Towle, were active in the Daughters of the American Revolution.

Surviving, in addition to his wife, are a son, J. Ellwood Towle of Town and Country; two daughters, Rolfe Towle Teague of Winston-Salem, N.C., and Amy Towle of Atlanta; and three grandsons.

## Marketing chair — continued from p. 1

business students about issues in management and to interact with the business community.

"Dr. Ackoff truly has been one of the pioneers in management science. I



Russell L. Ackoff

look forward to having him here to share his ideas on management and corporate strategy with our students and faculty," Virgil said. "It's a great opportunity for us and the St. Louis business community."

During his academic career, Ackoff has served on the faculties of Wayne State University in Detroit, the Case Institute of Technology in

Cleveland and the University of Pennsylvania in Philadelphia.

He received a bachelor's degree in 1941 in architecture and a doctorate in 1947 in the philosophy of science from the University of Pennsylvania.

He has written or co-authored 18 books and more than 150 articles for academic journals. He has conducted research for more than 300 corporations and government agencies. Also, he has participated in management and executive development programs for a wide variety of universities, corporations and government agencies.

The Anheuser-Busch grant of \$2 million will be matched by the John M. Olin Foundation, which has made available a \$15 million challenge grant to help move the Washington University business school into the top ranks of American business education.



# SPORTS

## Consistency is key to soccer team's strategy

According to men's soccer coach Ty Keough, consistency is the key to the Bears' season. Why?

Well, for the first time in many seasons, the Red and Green are fielding a team that really has no true superstars at any position other than goalkeeper, where two-time All-America Chris Scaglione returns. With so many equally talented players, there is a need to develop a strong cohesiveness, which in turn will result in better team play.

Secondly, this year's group must be able to handle the diverse schedule better than they did a year ago. A typical Washington schedule generally features some powerhouse teams from the NCAA Division I and II levels, but also some lesser opponents at the Division III ranks. Says third-year coach Keough, the Bears must play as hard and efficiently against the lesser teams as they do against the more difficult opposition.

"A team that is successful usually doesn't have all their eggs in one basket, and I think that will be the case for us this season," says Keough. "Ideally, you want to have a balanced attack where one or two guys don't feel all the pressure to carry the offense. We should have that type of situation this year.

"Then there is the mental and psychological part of the game. Last year we got into trouble with this phase. For the most part, we'd play great against the more difficult teams, and come away with an extremely respectable result. But then we'd turn around and get beat by a lesser opponent, or barely defeat a team we could have beaten by two or three goals."

Part of last year's consistency problem was a result of youth. The Bears had only six juniors and seniors compared to the 11 that dot this fall's roster. That alone could make a difference. Nearly half of the 1988 starters were first-year players at the varsity level.

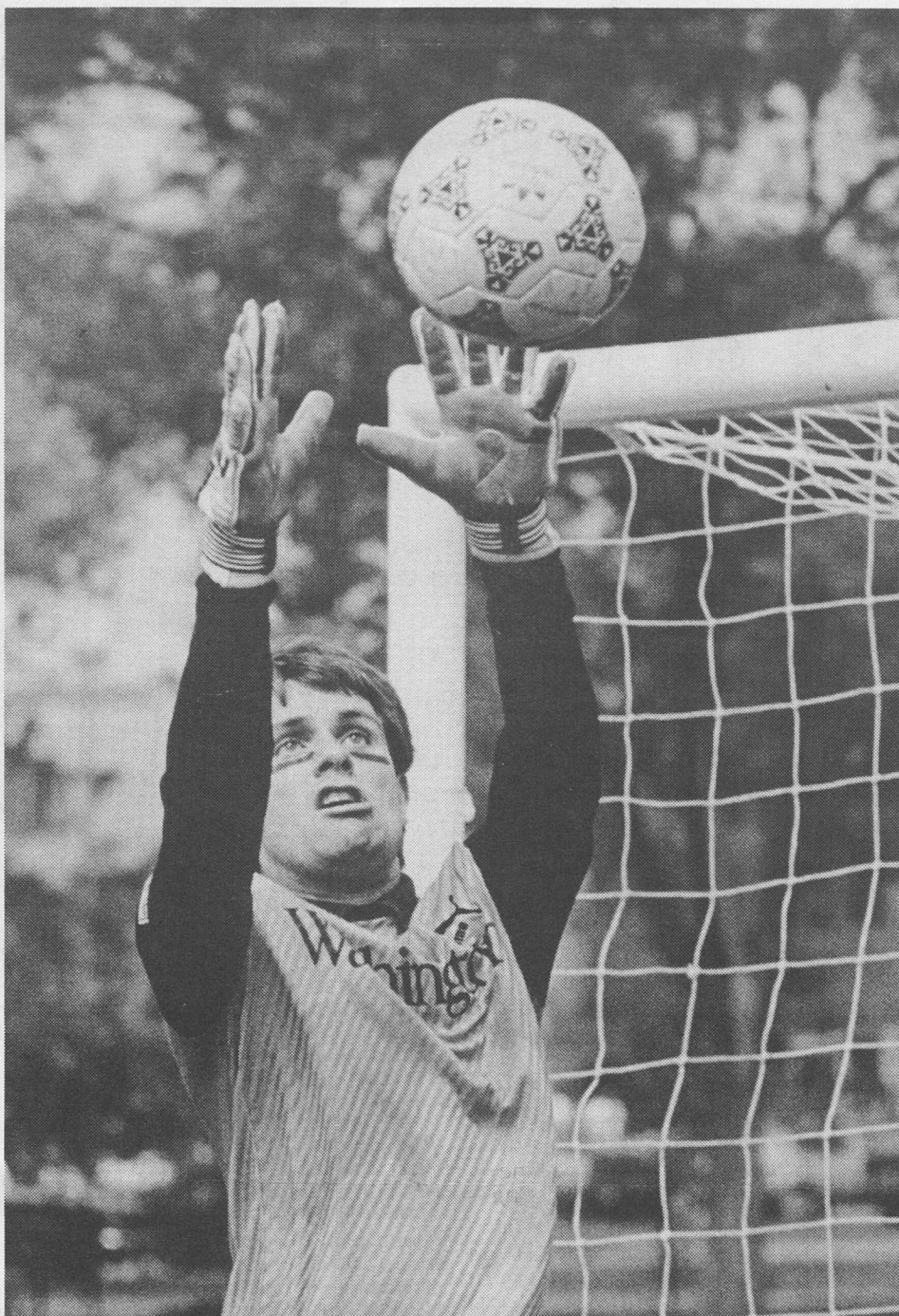
The Bears have set a challenging goal for themselves — to win back the University Athletic Association title that they relinquished to the University of Rochester last year.

"Because of the strength and competitiveness of our league, capturing the UAA title is our goal every season," says Keough. "The winner of our league, or usually the top two or three teams, are generally NCAA tournament-caliber squads. There is a high level of competence in terms of coaching, facilities and play. It's a prestigious goal for anyone to pursue."

Also on the mind of the Bears will be a return trip to the NCAA tournament. Over the last four years the Bears have found themselves caught in a mysterious cycle. In 1985 and '87, Washington University placed second in the NCAA national tournament. In 1986 and '88, the Bears missed the tournament, and both times, finished the season two games over .500.

Is a second-place finish in store for 1989? "I'd rather finish number one in the nation," says Keough, "but if you'd ask me today would I be satisfied to finish second, I'd say 'yes.' But ask me the same question prior to the kickoff in the national championship game, and obviously the answer would be 'no.'"

If the Bears do become consistent and create a cohesive unit, then a UAA title and a return trip to the NCAA tournament is possible.



Senior Chris Scaglione, a two-time All-America, returns as the Bears' goalkeeper.

### MEN'S SOCCER SCHEDULE

DATE	OPPONENT	TIME	SITE
Fri., Sept. 1	WEBSTER UNIVERSITY	7:30 p.m.	HOME
Sun., Sept. 3	ALUMNI	1 p.m.	HOME
Wed., Sept. 6	ST. LOUIS UNIVERSITY	7:30 p.m.	HOME
Sat., Sept. 9	*Case Western Reserve University	11 a.m. (EDT)	Cleveland, Ohio
Wed., Sept. 13	Univ. of Missouri-St. Louis	7:30 p.m.	St. Louis
Sun., Sept. 17	*New York University	1:30 p.m. (EDT)	New York, N.Y.
Wed., Sept. 20	Principia College	4 p.m.	Elsah, Ill.
Sat., Sept. 23	BLACKBURN COLLEGE	11 a.m.	HOME
Sun., Sept. 24	DePauw University	1 p.m.	Greencastle, Ind.
Tue., Sept. 26	ILLINOIS COLLEGE	7:30 p.m.	HOME
Sat., Sept. 30	*University of Rochester	7 p.m. (EDT)	Rochester, N.Y.
Wed., Oct. 4	MARYVILLE COLLEGE	7 p.m.	HOME
Sat., Oct. 7	*BRANDEIS UNIVERSITY	1:30 p.m.	HOME
Wed., Oct. 11	Univ. of Missouri-Rolla	7 p.m.	Rolla, Mo.
Sat., Oct. 14	*CARNEGIE MELLON UNIVERSITY	1 p.m.	HOME
Mon., Oct. 16	PARKS COLLEGE	7:30 p.m.	HOME
Wed., Oct. 18	AUGUSTANA COLLEGE	7:30 p.m.	HOME
Sat., Oct. 21	*University of Chicago	3 p.m.	Chicago, Ill.
Tue., Oct. 24	MacMURRAY COLLEGE	4 p.m.	HOME
Sat., Oct. 28	*EMORY UNIVERSITY	3 p.m.	HOME
ALL HOME OPPONENTS IN CAPITALS.			
* University Athletic Association contest.			

### VOLLEYBALL SCHEDULE

DATE	OPPONENT	TIME	SITE
Fri., Sept. 1	St. Louis University Quadrangular		St. Louis
	Washington U. vs. St. Louis U.	7 p.m.	
Sat., Sept. 2	St. Louis University Quadrangular		St. Louis
	Washington U. vs. Quincy College	11 a.m.	
	Washington U. vs. Mo.-St. Louis	5 p.m.	
Tue., Sept. 5	University of Missouri	7:30 p.m.	Columbia, Mo.
Fri.-Sat., Sept. 8-9	Elmhurst Mikasa Invitational	TBA	Elmhurst, Ill.
Wed., Sept. 13	COLUMBIA COLLEGE	7 p.m.	HOME
Fri., Sept. 15	WASHINGTON UNIVERSITY QUADRANGULAR		HOME
	Washington U. vs. Fontbonne	8 p.m.	
Sat., Sept. 16	WASHINGTON UNIVERSITY QUADRANGULAR		HOME
	Washington U. vs. MacMurray	Noon	
	Washington U. vs. Principia	5 p.m.	
Wed., Sept. 20	McKendree College	7 p.m.	Lebanon, Ill.
Fri., Sept. 22	Wisconsin-Whitewater Quadrangular		Whitewater
	Washington U. vs. UW-Whitewater	7:30 p.m.	
Sat., Sept. 23	Wisconsin-Whitewater Quadrangular		Whitewater
	Washington U. vs. UW-Eau Claire	9 a.m.	
	Washington U. vs. Wheaton	1 p.m.	
Thu., Sept. 28	Missouri Baptist Triangular		St. Louis
	Washington U. vs. Drury College	7 p.m.	
	Washington U. vs. Missouri Baptist	8 p.m.	
Fri.-Sat., Oct. 6-7	University Athletic Association Round Robin (@ U. of Chicago)	TBA	Chicago, Ill.
Fri.-Sat., Oct. 13-14	Menlo College Invitational	TBA	Atherton, Calif.
Tue., Oct. 17	GREENVILLE COLLEGE	7 p.m.	HOME
Fri., Oct. 20	WASHINGTON UNIVERSITY QUADRANGULAR		HOME
	Washington U. vs. Juniata College	8 p.m.	
Sat., Oct. 21	WASHINGTON UNIVERSITY QUADRANGULAR		HOME
	Washington U. vs. Quincy College	Noon	
	Washington U. vs. Ill. Benedictine	5 p.m.	
Fri.-Sat., Oct. 27-28	University Athletic Association Championships (@ U. of Rochester)	TBA	Rochester, N.Y.
Tue., Nov. 7	UNIVERSITY OF MISSOURI-ST. LOUIS	7 p.m.	HOME
ALL HOME OPPONENTS IN CAPITALS.			

## Volleyball Bears ready to serve up championship play

Great expectations.

Make no mistake about it, anticipation is running high on the Hilltop Campus for a championship season for the volleyball Bears.

A quick check through the history book offers an easy explanation:

— 1986: With four freshmen from Teri Clemens' first recruiting class in the starting lineup, the Bears reversed 12-18 rubble into 43-8 fortune.

— 1987: With three sophomore and two freshman starters, the Red and Green earned a 47-8 record and advanced to the NCAA round of Elite Eight.

— 1988: With no seniors on the roster, the Bears went 37-4 and again reached the Elite Eight, being eliminated by the nation's number-two team in a five-game thriller.

The fabulous freshmen from 1986 are now 1989's seniors. And while the form for expressing it wavers between a whisper and a war cry, the message is clear. This is a team that could go far. Very far.

"We're ready," says fifth-year head coach Clemens. "We are where we wanted to be at this time on the continuum. We've learned what it takes to win big matches, and we don't fear making it happen."

Twelve returnees, including a trio of All-America selections, will be joined by a talented crop of six newcomers in that quest. Simple arithmetic hints that depth will be a Bear ally this year.

"Not only do we have depth," says Clemens, "but we have variety and flexibility within that depth. The players on the court may not necessarily be chosen according to rank, but by the style of play needed. We can run a small, quick team out there or we can put a big, powerful group on the floor when we need to apply the hammer."

The 1989 schedule will provide numerous challenges to the Bears' depth. Ever since the Red and Green were left standing outside the ring at the NCAA tournament three years ago because of a perceived weak schedule, Clemens has sought out all heavyweight contenders. This fall is no different.

The Bears open the season with matches against Division I foes St. Louis University and University of Missouri-Columbia and Division II Missouri-St. Louis and Quincy. Also on the slate are Division III powers Wisconsin-Whitewater, Illinois Benedictine, Elmhurst, Menlo, Colorado College, Juniata, Wisconsin-Eau Claire, and Rochester.

"This team craves competition," says Clemens. "We've intentionally opened our schedule with some of the best play in Missouri and then move straight to Elmhurst to hopefully defend our title. If we're not ready when the curtain is drawn, so to speak, we're not going to see some 'W's right away. But we'll take what we can get and be ready at the end."

The Bears prepared for this fall by playing a spring slate composed primarily of Division I schools.

"I feel this spring helped us like no other," assesses Clemens. "We played a level up and took our share of beatings. But by the time the spring was over, we dealt a few blows ourselves."

"Our efforts this spring have enabled us to come a long way since last season. We improved our tactical analysis and discovered some new weapons."

"We're ready."



# CALENDAR

Aug. 31-Sept. 9

## LECTURES

**Thursday, Aug. 31**

**10 a.m. Dept. of Molecular Microbiology Seminar,** "Cloning and Characterization of Genes for Light-harvesting Antenna Polypeptides in *Synechococcus* 6301," Lisbet Lind, Dept. of Microbiology, U. of Umea, Sweden. 775 McDonnell Medical Sciences Bldg.

**Noon. Dept. of Molecular Microbiology Seminar,** "Translational Regulation of the Differentially Expressed trmD Ribosomal Protein Operon of *E. coli*," Mikael Wikstrom, Dept. of Microbiology, U. of Umea, Sweden. 775 McDonnell Medical Sciences Bldg.

**Wednesday, Sept. 6**

**10 a.m. Thesis Defense,** "Transcriptional Regulation of Rous Sarcoma Virus and Related Avian Retroviruses," Brian Greuel, Dept. of Biochemistry and Molecular Biophysics. 2902 S. Bldg., 4577 McKinley.

**11 a.m. Assembly Series Poetry Reading,** featuring Derek Walcott, poet, playwright and author, *Collected Poems* and *The Arkansas Testament*. Graham Chapel. For more info., call 889-5285.

**Noon. Neural Sciences Luncheon Seminar,** "Modulation of Calcium Channels in Sensory Neurons," Edwin W. McCleskey, WU asst. prof. of cell biology and physiology. 928 McDonnell Medical Sciences Bldg.

**4 p.m. Div. of Biology and Biomedical Sciences Plant Biology Seminar,** "Biosynthesis, Processing and Transport of Vacuolar and Extracellular Plant Glycoproteins," Arnd Sturm, Friedrich Miescher Institute, Switzerland. 309 Rebstock.

**Thursday, Sept. 7**

**4 p.m. Dept. of Chemistry Seminar,** "Structurally Interesting Peroxides From Alkene Ozonolysis," William Bunnelle, prof., chemistry dept., U. of Missouri-Columbia. 311 McMillen. For more info., call 889-6530.

**4 p.m. Div. of Biology and Biomedical Sciences Plant Biology Seminar,** "Targeting of Proteins to Lysosomes," Stuart A. Kornfeld, prof., WU Dept. of Biochemistry and Molecular Biophysics. 322 Rebstock.

**Friday, Sept. 8**

**9:15 a.m. Dept. of Pediatrics Fourth Philip R. Dodge Lecture,** "Therapeutic Possibilities in Muscular Dystrophies," Victor Dubowitz, prof. of paediatrics, Royal Postgraduate Medical School, U. of London. Clopton Aud., 4950 Audubon Ave. For more info., call 454-6000.

**8:30 p.m. Hillel Lecture,** "Jewish Humor," Seymour V. Pollack, WU prof., Dept. of Computer Science. Hillel House, 6300 Forsyth Blvd. For more info., call 726-6177.

**Saturday, Sept. 9**

**8 a.m. WU School of Medicine General Surgery Grand Rounds,** "Plastic Surgery and General Surgery," Philip G. Arnold, the James Barrett Brown Visiting Professor of Plastic Surgery and section chief, Dept. of Plastic and Reconstructive Surgery, The Mayo Clinic, Rochester, Minn. Clopton Aud., Wohl Clinic Bldg., 4950 Audubon.

**9 a.m. Saturday Morning Neural Sciences Seminar,** "Function in Visual Association Cortex," Nigel W. Daw, prof., WU Dept. of Cell Biology and Physiology. Erlanger Aud., McDonnell Medical Sciences Bldg.

**10 a.m. Dept. of Music and Endangered Arts Foundation Lecture/Demonstration of Pre-Colombian Musical Instruments,** with Luis Perez Ixoneztli, prof. of music, U. of Mexico, and expert on pre-Colombian musical artifacts. Pre-Colombian Gallery, St. Louis Art Museum. For more info., call 889-5581.

## MUSIC

**Thursday, Aug. 31**

**4:30-6:30 p.m. WU Wind Ensemble Open Auditions.** Tietjens Rehearsal Hall. To schedule an appointment or for more info., call 889-5581.

**Tuesday, Sept. 5**

**2-4 p.m. WU Choral Groups Open Auditions.** 10 Blewett B. To schedule an appointment or for more info., call 889-5581.

**7-9 p.m. WU Chamber Music Auditions.** 3 Blewett B. To schedule an appointment or for more info., call 889-5581.

**7-9 p.m. WU Collegium Musicum Open Auditions.** 8 Blewett B. To schedule an appointment or for more info., call 889-5581.

**7-9:30 p.m. WU Jazz Band Open Auditions.** Tietjens Rehearsal Hall. To schedule an appointment or for more info., call 889-5581.

**Wednesday, Sept. 6**

**6-8 p.m. WU Symphony Orchestra Open Auditions.** Tietjens Rehearsal Hall. To schedule an appointment or for more info., call 889-5581.



**Musical artifacts:** Huayucaltia, a six-member ensemble from Central and South America, will participate in a lecture/demonstration of pre-Colombian musical instruments at 10 a.m. Saturday, Sept. 9, in the Pre-Colombian Gallery at the St. Louis Art Museum in Forest Park. The University's Department of Music and the Endangered Arts Foundation are co-sponsoring the event, which will feature Luis Perez Ixoneztli, professor of music at the University of Mexico and an expert on pre-Colombian musical artifacts. For more information, call 889-5581.

## EXHIBITIONS

**"Washington University Permanent Collection."** Through Dec. 31. Gallery of Art, Steinberg Hall, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

## SPORTS

**Friday, Sept. 1**

**7:30 p.m. Men's Soccer.** WU vs. Webster University. Francis Field.

**Sunday, Sept. 3**

**1 p.m. Men's Soccer.** WU vs. Alumni. Francis Field.

**Wednesday, Sept. 6**

**7:30 p.m. Men's Soccer.** WU vs. St. Louis U. Francis Field.

## Eight-week smoking cessation program begins Sept. 5

The Washington University Smoking Clinic will begin its 12th year of helping smokers kick the habit with a new session scheduled to begin on Tuesday, Sept. 5. Orientation for the eight-week program will be held at 5:30 p.m. on campus.

The course, to be held on Tuesdays, costs \$50; all but \$10 of the fee is refundable at the end of the session. For room location and to register, call 889-6527.

The clinic has seen hundreds of smokers during the past 11 years, says Edwin B. Fisher, Ph.D., associate professor of psychology and director of the University's Center of Health Behavior Research. He is a nationally recognized expert on the psychology of smoking and serves as president of the American Lung Association of Eastern Missouri.

"During that time, we have been doing smoking cessation research through the Department of Psychology," says Fisher. "We've found that we could — without shocks or nausea or any other aversive procedures — achieve state-of-the-art success rates of about 30 percent. The average successful quitter fails two or three times before ultimately succeeding," Fisher adds, "so even people who

## MISCELLANY

**Tuesday, Sept. 5**

**Noon-1 p.m. Personal Productivity Seminar Series,** "Winning Negotiations," Patricia Taylor, program director. Sponsored by WU Center for the Study of Data Processing. Conference room, St. Louis Public Library, 1301 Olive St. Brown-bag-it lunch; coffee provided. For more info., call 726-4487.

**5:30 p.m. Smoking Cessation Program Orientation,** offered by WU's Smoking Clinic. Eight-week program will be held on Tuesdays at 5:30 p.m. Fee is \$50; all but \$10 is refunded at end of session. For more information and to register, call 889-6527.

**7-9 p.m. University College Writing Workshop in Poetry** with Jennifer Atkinson, poet and fiction writer. Eight Tuesdays through Oct. 24. \$150. To register or for more info., call 889-6788.

**7-10 p.m. Performing Arts Dept. Open Auditions** for "The Tempest" and "Everyman and the Apple Tree." Edison Theatre. (Also Wed., Sept. 6, same time.) For more info., call 889-5858.

**Wednesday, Sept. 6**

**8:30 a.m.-5 p.m. Eighth Annual Enterprise-wide Information Management (EwIM) Conference** to discuss the latest in computerized information systems in the business world. Sponsored by STIM and the IBM Los Angeles Scientific Center. (Also Thurs., Sept. 7, same time, and Fri., Sept. 8, 8:30 a.m.-4 p.m.) WU and Stouffer Concourse Hotel. Cost: EwIM members \$595; non-members \$695. For more info., call 889-5338 or 889-4556.

**Saturday, Sept. 9**

**10 a.m.-noon University College Writing Workshop in Fiction** with Elizabeth Graver, WU graduate student in The Writing Program. Eight Saturdays through Oct. 28. \$150. To register or for more info., call 889-6788.

Lung Association. Fisher's research has helped the Lung Association evaluate and revise its program.

"We are now developing plans to train volunteers in community agencies, church groups and civic organizations to run smoking cessation programs for their own members and their communities," Fisher says. "We're especially interested in exporting our procedures to the rural parts of Missouri, where people may have less access to these kinds of programs than in the metropolitan areas."

The smoking cessation program at Washington University is co-sponsored by the American Lung Association and the Missouri Department of Health. It is supported by a grant from the National Cancer Institute.

## Calendar Deadline

The deadline to submit items for Sept. 21-30 calendar of the Washington University Record is Sept. 8. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Send items to Jill Winte, calendar editor, Box 1070, or by electronic mail to p72245JW at WUVMC.